

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (PREVIOUSLY PRESENTED) A steel composition intended to be used in a process comprising a cold rolling step, for the production of uncoated, electro-galvanised or hot dip galvanised TRIP steel products, said composition comprising:

- C : between 1300ppm and 2600ppm,
- Mn : between 10000ppm and 22000ppm,
- Al : between 8000ppm and 15000ppm,
- Si : between 2000ppm and 6000ppm,
- P : between 400 and 1000ppm,
- S : maximum 120ppm,
- N : maximum 200ppm,
- Ti : maximum 1000ppm,
- Nb : maximum 1000ppm,
- V : maximum 1000ppm,
- B : maximum 10ppm.

the remainder being iron and incidental impurities.

2. (ORIGINAL) The steel composition according to claim 1, comprising a carbon content between 1300ppm and 1900ppm.

3. (ORIGINAL) The steel composition according to claim 2, comprising a carbon content between 1350ppm and 1900ppm.

4. (ORIGINAL) The steel composition according to claim 2, comprising a carbon content between 1400ppm and 1900ppm.
5. (ORIGINAL) The steel composition according to claim 1, comprising a carbon content between 1700ppm and 2300ppm.
6. (ORIGINAL) The steel composition according to claim 1, comprising a carbon content between 2000ppm and 2600ppm.
7. (PREVIOUSLY PRESENTED) The steel composition according to claim 2, comprising :
 - Mn : between 13000ppm and 22000ppm,
 - Al : between 8000ppm and 14000ppm,
 - Si : between 2500ppm and 4500ppm,
 - P : between 600 and 1000ppm,
 - S : maximum 120ppm,
 - N : maximum 150ppm,
 - Ti : maximum 200ppm,
 - Nb : maximum 100ppm,
 - V : maximum 100ppm,
 - B : maximum 5ppm.
8. (ORIGINAL) The steel composition according to claim 7, comprising an aluminium content between 9000ppm and 13000ppm.
9. (WITHDRAWN) A process for manufacturing a cold rolled TRIP steel product, comprising the steps of:

preparing a steel slab having a composition according to claim 1,

hot rolling said slab, wherein the finishing rolling temperature is higher than the Ar₃ temperature, to form a hot-rolled substrate,

cooling said substrate to a coiling temperature (CT) between 500°C and 680°C,

coiling said substrate at said coiling temperature,

pickling said substrate to remove the oxides,

cold rolling said substrate to obtain a reduction of thickness, with a minimum reduction of 40%.

10. (WITHDRAWN) The process according to claim 9, further comprising the steps of:

soaking said substrate at a temperature between 760°C and 850°C,

cooling said substrate with a cooling rate higher than 2°C/s to a temperature in the range 360°C to 450°C,

holding said substrate in said temperature range for a time less than 700s,

cooling said substrate to room temperature at a cooling rate higher than 1°C/s.

subjecting said substrate to a skinpass reduction of maximum 1.5%.

11. (WITHDRAWN) The process according to claim 10, further comprising an electrolytic zinc coating step.

12. (WITHDRAWN) The process according to claim 9, further comprising the following processing steps:

soaking said substrate at a temperature between 760°C and 850°C,

cooling said substrate with a cooling rate higher than 2°C/s to the temperature of a Zn-bath,

holding said substrate in the temperature range between 490°C and 460°C for less than 200 seconds.

hot dip galvanising said substrate in said Zn-bath,

cooling said substrate to room temperature at a cooling rate higher than 2°C/s.

13. (WITHDRAWN) The process according to claim 12, further comprising the step of subjecting said substrate to a skinpass reduction of maximum 1.5%.

14. (WITHDRAWN) A steel product produced according to the process of claim 9 and having a microstructure comprising 30-75% ferrite, 10-40% bainite, 0-20% retained austenite and possibly 0-10% martensite.

15. (WITHDRAWN) A steel product produced according to the process of claim 10, said product comprising a carbon content between 1300ppm and 1900ppm, said product having a yield strength between 320MPa and 480MPa, a tensile strength above 590MPa, an elongation A80 higher than 26% and a strain hardening coefficient, calculated between 10% and uniform elongation, higher than 0.2.

16. (WITHDRAWN) A steel product produced according to the process of claim 10, said product comprising a carbon content between 1700ppm and 2300ppm, said product having a yield strength between 350MPa and 510MPa, a tensile strength above 700MPa, an elongation A80 higher than 24% and a strain hardening coefficient, calculated between 10% and uniform elongation, higher than 0.19.

17. (WITHDRAWN) A steel product produced according to the process of claim 10, said product comprising a carbon content between 2000ppm and 2600ppm, said product having a yield strength between 400MPa and 600MPa, a tensile strength above 780MPa, an elongation A80 higher than 22% and a strain hardening coefficient, calculated between 10% and uniform elongation, higher than 0.18.

18. (WITHDRAWN) A steel product produced according to the process of claim 10, said product comprising a carbon content between 2000ppm and 2600ppm, said product having a yield strength between 450MPa and 700MPa, a tensile strength above 980MPa, an elongation A80 higher than 18% and a strain hardening coefficient, calculated between 10% and uniform elongation, higher than 0.14.

19. (WITHDRAWN) A steel product produced according to claim 14, having bake hardening BH2 higher than 40MPa in both longitudinal and transversal directions.